



SAN BERNARDINO MICROWAVE SOCIETY, Incorporated

FOUNDED IN 1968

A NONPROFIT AMATEUR TECHNICAL ORGANIZATION DEDICATED
TO THE ADVANCEMENT OF COMMUNICATIONS ABOVE 1000 MC.

W6IFE Newsletter

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At the **6 February** 2003 meeting of the SBMS 6 Feb Larry, K6HLH will talk about his adventures with the HP-Z3801A GPS receiver and frequency reference as advertised in QEX and QST magazines. The SBMS meets at the American Legion Hall 1024 Main Street (south of the 91 freeway) in Corona, CA at 1900 hours local time on the first Thursday of each month. Check out the SBMS web site at <http://www.ham-radio.com/sbms/>.

Pres Sez- Well, the ship has been launched. Thanks to N6RMJ and committee we have launched the Club Microwave Contest. When you get a chance to, talk it up. We will do an evaluation during the summer sometime. Rules appear later in the newsletter. Also, be sure and participate! There was some interest expressed in the little GPS receiver that plugs into the USB port. It is made by Deluo and costs \$99 the website is: <http://www.deluo.com/Merchant2/merchant.mv>.

Last meeting had a great program by Pat, N6RMJ on the possibilities of the WSJT-44 modes in communication via EME or scatter. Thanks Pat. Visitors were Mike Aust WB6DJI of Torrance and Howard Bogen WA6YGD of Pasadena. Welcome. Welcome to Paul, KH6HME for one of his visits to the mainland. The ARRL affiliate paperwork is proceeding. The SBMS sponsored microwave contest is being tweaked per inputs from other clubs (see write up later in this newsletter). SBMS membership voted to co-host the 2004 Microwave Update with the San Diego Microwave Group. Dennis, WA6NIA is the new president of the Long Beach Radio Club. 25 people present.

Address Corrections- if in last months newsletter list of membership there was an error in your information please send changes to Bill at bburns@ridgenet.net or mail to 247 Rebel Road Ridgecrest, CA 93555.

Mail box problem- Treasurer Dick, K6HIJ noted that his mailbox had been tampered with. If you had sent a dues check to him in late December or early January and Dick hasn't recognized it, please contact him- rkolbly@compuserve.com or 760-253-2477.

Activity reported at the January 2003 meeting of SBMS- Dave, WA6CGR hosted the Christmas Party (Thank you), fixed N6RMJ's rig and helped Mike W6YLZ with his TWT; Mike W6YLZ had TWT work to do; Larry, K6HLH fixed his 1296 transverter and has the 2304 rig working so can work the new translator just fine; Chuck, N6EQ working on MACOM rig and WSWSS business; Bob, W6SYA fixing DB6NT transverter; Ken, WB6DTA rebuilt 10 GHz rig and built a back-up loaner rig; Paul, KH6HME had all beacons working when he left Hawaii; Gary K6KVC played with HO railroad ATV; Mike, WB6DJI has 10 GHz rig; Chris, N9RIN was off to Mexico; Joonho, KG6MQS was working on his 10 GHz rig; Howard, WA6YGB has rigs from 432 to 1296 MHz and is working on a 8 ft dish; Ed, K6ODV had his 1296 antennas blown away by wind; Rick, W6ESS has 10 GHz working; Dennis, WA6NIA has some pictures on the ARRL web site and has been in Switzerland; Ed, W6OYJ updated the website with 1296 MHz transverter information; Bill, WA6QYR has been working on a 2 GHz helix and LNA; Chuck, WA6EXV was painting the shop building and building a dual FET power supply for testing on network analyzer; Dick, WB6DNX took his antenna down; Mel, WA6JBD working on an NEC 10 GHz TWT with 100 mw in and 20 w out and a rubidium standard for the bench; Doug, K6JEY worked on a VLF comparator.

SBMS announces a new contest for microwavers!

For some time San Bernardino Microwave Society members have been mulling over a contest that would encourage activity and level some of the contest playing field. Thanks to N6RMJ and committee a contest has been designed that we hope does that. The contest would involve activity from 2ghz and up and center around club activity. Members tally up their scores and add them up with other member's scores to make up a club score. The final score is then submitted in one of three categories based on club size. Awards will be issued to clubs in the following three categories: Clubs with 2-10 members, 11-50 members, and 51 and above. Yes, you can make up a club of two and call yourselves whatever you like. (However, we don't encourage words in the club title that will have to be replaced with an * or @.) The intent is to give isolated stations, roving groups and others a chance to win in a special category. This is not meant to break up a large club into 25 small clubs. We had quite a discussion about this aspect and felt that we should leave it up to good sense and practice. For instance, several of our members have extensive roving stations on multiple bands. Should they enter as a separate club or part of SBMS? We felt that ordinarily if you are a member of an established club you should enter under that club. However, if you are not a current member of a club, either join one or start your own. Club size minimum is 2. Two good things could happen, you could start a club that would grow or you could all join some other club. (In the early days of radio it happened a lot.)

However if you and several others want to go out roving as a separate club and call yourselves "The Microrovers Club" you can do that too. A minimum club is a contest submission from two operators who have separate stations.

The contest rules are attached as a Word document and are included as text below.

This is the first time out for the event and we look forward to your comments to improve it.

73, Doug Millar K6JEY

SBMS President 2003

2GHZ AND UP WORLD WIDE CLUB CONTEST

SPONSORED BY THE S.B.M.S.

SAN BERNARDINO MICROWAVE SOCIETY

1. Object: Worldwide amateurs work as many amateur stations in as many different locations as possible in the world on bands from 2-GHz through Light.

2. Date and Contest Period: Third full weekend of March. The dates are March 15-16, 2003 Operations may take place for 24 hours total on the contest weekend. The weekend begins at 6AM local Saturday through 12 midnight local Sunday. Listening times count as operating time. Times off must be clearly indicated in the log.

3. Entry Categories: CLUBS

3.1.0 CLUBS WILL BE DIVIDED INTO 3 CATEGORIES BY AMOUNT OF ACTIVE MEMBERS

3.1.1 SMALL = 2-10 / MEDIUM = 11-50 / LARGE = 51 AND MORE

4. Exchange: Six-character Maidenhead Locator (see April 1994 QST, p 86 or www.arrl.org/locate/gridinfo.html).

4.1.0 Signal report is optional.

5. Miscellaneous:

5.1.0 Scheduling contacts are both permissible and encouraged.

5.2.0 Stations are encouraged to operate from more than a single location. For purposes of the contest, a change of location is defined as a move of at least 16 km (10 miles). A station may be reworked on each band for additional credit by either end of the contact moving to a new location.

5.3.0 Contacts may not be duplicated on the second day (that is at least one end of the QSO must be from a different location).

5.4.0 Contacts must be made over a minimum distance of 1 km.

5.5.0 A transmitter used to contact one or more stations may not be used subsequently under any other call during the contest period. The intent of this rule is to prohibit "manufactured" contacts.

6. Scoring:

6.1.0 Distance points: The distance in km between stations for each successfully completed QSO is calculated. Distance = distance in km.

6.2.0 In making the distance calculations, a string (or ruler) and map may be used. However, calculations by computer program are preferred. Several such programs are available in the commercial market, including a BASIC program listing in

The ARRL World Grid Locator Atlas. For purposes of making calculations, stations are defined as being located in the center of the 6-character locator sub-square (most computer programs make this assumption).

6.3.0 There are multipliers. QRP= X-3 / MEDIUM= X-2 / UNLIMITED= X-1

6.3.1 QRP 0 500MW / MEDIUM 501MW - 5W / UNLIMITED 5W AND UP

6.3.2 You must decide what power level you are going to run on each band and stay with that on that band. You can have a different power level for each band, but can only use the multiplier for that bands QSO points

6.4.0 QSO points: Count 100 QSO points for each unique call sign worked per band. Portable indicators added to a call sign are not considered as making the call sign unique.

Scoring example: DISTANCE MULTIPLIER POINTS

N6CA works N6XQ on 2GHZ AT 20 WATTS AT 10KM 10 1 10

N6CA works N6XQ on 3GHZ AT 4.9 WATTS AT 10KM 10 2 20

N6CA works N6XQ on 5GHZ AT 5 WATTS AT 10KM 10 2 20

N6CA works N6XQ on 10GHZ AT 250MW AT 10KM 10 3 30

N6XQ UNIQUE CALL 100

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DISTANCE X MULTIPLIER = POINTS ADD ALL POINTS TOTAL = 180

ADD ALL CLUB MEMBERS TOTAL TO COME UP WITH THE TOTAL FOR THE CLUB COMPETITION

ALL SCORES WILL BE SUBMITTED TO THE SBMS AS A CLUB TOTAL NO INDIVIDUAL SCORES
FOR THIS COMPETITION

SUBMIT LOGS TO PAT COKER N6RMJ

N6RMJ@Direcway.com OR MAIL GOOD IN ANY CALLBOOK SINCE 1988

Scheduling:

6 Mar Chuck, WA6EXV Heaps 2304.3 MHz Beacon/ 1296- 2304 MHz Translator

4 Apr K6JEY, Deep space Tracking Station in Tidbinbilla video. 2003-4 Elections.

1 May TBD

5 June TBD

"Wants and Gots" for sale

For Sale General Microwave 460B Power meter with 12 GHz head \$150 Mel WA6JBD 909-624-1113.

Want- 2 coaxial relays- 12v or 24 v for 6-mtr-amp contact Mike W6YLZ 881-349-8525 or Ed K6ODV 909-688-1339.73's Bill



Chris, N9RIN looking at some of Sam's parts for the 24 GHz Pcom modification project. Chris will be getting the 3 GHz IF boards built. Photo by Kurt, K6RRA.

The San Bernardino Microwave Society is a technical amateur radio club affiliated with the ARRL having a membership of over 90 amateurs from Hawaii and Alaska to the east coast and beyond. Dues are \$15 per year, which includes a badge and monthly newsletter. Your mail label indicates your call followed by when your dues are due. Dues can be sent to the treasurer as listed under the banner on the front page. If you have material you would like in the newsletter please send it to Bill WA6QYR at 247 Rebel Road Ridgecrest, CA 93555, bburns@ridgecrest.ca.us, or phone 760-375-8566. The newsletter is generated about the 15th of the month and put into the mail at least the week prior to the meeting. This is your newsletter. SBMS Newsletter material can be copied as long as SBMS is identified as source.

San Bernardino Microwave Society newsletter

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USA